Rec'd POW TO 03 DEC 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

OMPI OMPI

(43) International Publication Date 24 December 2003 (24.12.2003)

PCT

(10) International Publication Number WO 2003/106954 A3

(51) International Patent Classification⁷:

G01L 21/12

(21) International Application Number:

PCT/GB2003/002452

(22) International Filing Date:

6 June 2003 (06.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0213611.7

13 June 2002 (13.06.2002) GB

(71) Applicant (for all designated States except US): THE BOC GROUP PLC [GB/GB]; Chertsey Road, Windlesham, Surrey GU20 6HJ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PACKER, Kenneth, George [GB/GB]; 3 Mayfield Place, Eastbourne, East Sussex BN22 8XJ (GB). KEY, Matthew [GB/GB]; c/o 20 Pinchmill Way, Sharnbrook, Bedford MK44 1PJ (GB).

(74) Agents: TOWNSEND, Victoria, Jayne et al.; Fry Heath & Spence LLP, The Gables, Massetts Road, Horley, Surrey RH6 7DQ (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

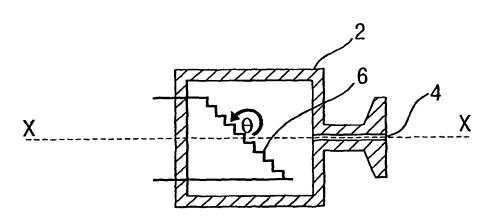
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
 3 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VACUUM GAUGE



(57) Abstract: A thermal conductivity type pressure gauge comprises a gauge head (2) being rotatably mountable in a vessel whose environmental pressure is to be measured and an elongate electrical filament (6) mounted in the gauge head, the gauge head (2) having an inlet wherethrough the electrical filament is exposed to the environmental pressure within the vessel and the filament (6) having directional component lengths in two orthogonal axes, one of the orthogonal axes X-X being parallel to the axis of rotation of the gauge head (2).



INTERNATIONAL SEARCH REPORT

PCT/GB 03/02452

A. CLASSIF IPC 7	GO1L21/12			
According to	International Patent Classification (IPC) or to both national classific	ation and IPC		
B. FIELDS 8				
	cumentation searched (classification system followed by classification of the control of the classification of	ion symbols)		
ji	ion searched other than minimum documentation to the extent that			
	ata base consulted during the international search (name of data baternal, WPI Data, PAJ	ase and, where practical, search te	rms used)	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with Indication, where appropriate, of the re	elevant passages	Relevant to claim No.	
X	GB 827 311 A (MINI OF SUPPLY) 3 February 1960 (1960-02-03) the whole document	•	1-7,9	
A	US 4 729 241 A (SCHUBERT HANS-JO AL) 8 March 1988 (1988-03-08) abstract; figure 1	ACHIM ET	1-9	
Α	DE 10 94 341 B (CONS ELECTRODYNA 8 December 1960 (1960-12-08) the whole document	MICS CORP)	1-9	
	,			
Furti	ther documents are listed in the continuation of box C.	X Patent family members	are listed in annex.	
"A" docume	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance		er the international filing date onflict with the application but ciple or theory underlying the	
"E" earlier filing o	document but published on or after the International date ent which may throw doubts on priority claim(s) or	"X" document of particular releva cannot be considered novel involve an inventive step wi	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention	
O' docum other	Is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means	cannot be considered to invided with	ance; the claimed invention volve an inventive step when the one or more other such docu- eing obvious to a person skilled	
later t	ent published prior to the international filing date but than the priority date claimed	"&" document member of the sa		
Date of the	actual completion of the international search	Date of mailing of the interna	ational search report	
3	31 March 2004	08/04/2004		
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Zafiropoulos	;, N	

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB 03/02452

Patent document cited in search report	}	Publication date	_	Patent family member(s)	Publication date
GB 827311	Α	03-02-1960	NONE		
US 4729241	Α	08-03-1988	DE JP	3541178 A1 62129730 A	27-05-1987 12-06-1987
DE 1094341	В	08-12-1960	NONE		